CIVIL-TECH CONSULTANTS AND ENGINEERS

An ISO 9001:2008 Certified Company

(Building, Geo-Tech & High way Material Testing Research Laboratory)

Engineering Project Consultants

JAS-ANZ BSCIC ISO 9001 REGISTERED

ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.

Type of Road Surface	Minimum Number of Tests as per IRC norms	Number of Test done during execution	Percentage of Tests carried out as per IRC norms
I	II	III	IV
CIVIL WORKS	10	10	100%
TOTAL	**10**	**10**	**100%**

Civil-Tech Consultants & Engineers Bangalore

CIVIL ENGINEERING TESTING LABORATORY www.civiltechconsultants.com

M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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ABSTRACT OF FREQUENCY OF TESTS CARRIED OUT

Name of Work : Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.

Description	Quantity	Unit	Total Number of test to be carried out as per IRC	Actual Number of Test to be conducted	% Completed
I	II	III	IV	V	IV
1) PCC 1:3:6 a)Cement b)M-Sand c))40mm Aggregate	25.59	Cum	3	3	100%
2)Cube M20	59.71	Cum	5	5	100%
3)Precast Slab 100mm thick	170.6	Sqm	1	1	100%
4)Steel-10MM	3.28	Tonne	1	1	100%
TOTAL			**10**	**10**	**100%**

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/CEMENT/2022-23 Date: 25.04.2022

TEST REPORT

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	Cement
Sample Received on	:	23.04.2022
Period of Testing	:	23.04.2022 to 25.04.2022
Report Issue Date	:	25.04.2022

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015 (2020)
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	395 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1.00 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Note:

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Kodigehalli Sub Division
BBMP, Bangalore

M/s. Civil-Tech Consultants & Engineers

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/SAND-Gradation/2022-23 25.04.2022

TEST REPORT SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received On	:	23.04.2022
Date of Testing	:	25.04.2022
Report Issue Date	:	25.04.2022

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.80	90-100	90-100	90-100	95-100
2.36	79.80	60-95	75-100	85-100	95-100
1.18	58.80	30-70	55-90	75-100	90-100
600 Micron	38.60	15-34	35-59	60-79	80-100
300 Micron	16.10	5-20	8-30	12-40	15-50
150 Micron	5.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

Note 2 :

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BBMP, Bangalore

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/AGG/GR/2022-23 25.04.2022

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of Work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	Coarse Aggregates (40mm)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2021)
Sample Received on	:	23.04.2022
Date of Testing	:	25.04.2022
Report Issue Date	:	25.04.2022

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS - 383 : 2016	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.54	95-100	85-100
20	37.14	30-70	0-20
10	13.10	10-35	0-5
4.75	2.10	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/BPS/W.No.08/Steel/2021-22 25.04.2022

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Samples ID	:	10 mm Bar
Test Method as per	:	IS - 1786 : 2008 (RA-2018)
Date of Testing	:	25.04.2022
Report Issue Date	:	25.04.2022

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	516	557	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/CUBE/2022-23 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Bed Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.06.2022
Report Issue Date	:	06.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.119	487.6	21.67
2	09.05.2022	06.06.2022	8.254	512.2	22.76
3	09.05.2022	06.06.2022	8.323	502.2	22.32

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/CUBE/2022-23 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Bed Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	06.06.2022
Report Issue Date	:	06.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.05.2022	06.06.2022	8.369	523.6	23.27
2	09.05.2022	06.06.2022	8.498	535.4	23.80
3	09.05.2022	06.06.2022	8.415	508.7	22.61

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2022
Report Issue Date	:	09.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2022	09.06.2022	8.105	489.6	21.76
2	12.05.2022	09.06.2022	8.254	512.2	22.76
3	12.05.2022	09.06.2022	8.352	508.7	22.61

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* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2022
Report Issue Date	:	09.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2022	09.06.2022	8.092	475.6	21.14
2	12.05.2022	09.06.2022	8.116	504.5	22.42
3	12.05.2022	09.06.2022	8.257	512.2	22.76

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/CUBE/2022-23 09.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of the work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
* Sample ID	:	CC Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	09.06.2022
Report Issue Date	:	09.06.2022

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.05.2022	09.06.2022	8.265	523.3	23.26
2	12.05.2022	09.06.2022	8.398	532.5	23.67
3	12.05.2022	09.06.2022	8.410	507.8	22.57

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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Job No.: CTCE/BBMP/BPS/W.No.08/CSR-94h/Precast Slab/2022-23 06.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. B.P.Shanmugam,** No.28, 2nd Cross, Giddappa Block, Ganganagara, Bangalore – 32.
* Name of work	:	Improvement of roads and drains in Ashwathappa Layout and surrounding areas in Ward No.08, Kodigehalli, BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/14/2022-23 Dated : 22.04.2022
Test Method As Per	:	IS - 516 (Part-4) : 2018
Sample	:	Precast Slab - 100MM Thick
*Grade of Concrete	:	M_{20}
Sample Received on	:	04.06.2022
Date of Testing	:	06.06.2022
Report Issue Date	:	06.06.2022

SL. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.06)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	67.00	112.00	0.932	2360.25	1.67	0.964	143.60	15.85	16.80	17.43	21.79
2	67.00	113.00	0.956	2399.61	1.69	0.966	155.40	16.20	17.17	17.79	22.23
3	67.00	114.00	0.966	2403.44	1.70	0.967	140.60	16.60	17.60	18.19	22.74

* Information is furnished by the Customer/Representative

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Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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